

## DECLARATION

COPY

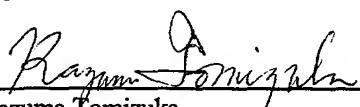
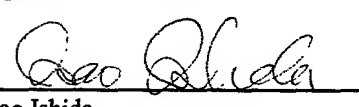
As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **TRANSGENIC TRANSCHROMOSOMAL RODENTS FOR MAKING HUMAN ANTIBODIES** the specification of which was filed on November 30, 2000 as Provisional Application No. 60/250,340.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Full Name of Inventor 1:	Last Name: <b>TOMIZUKA</b>	First Name: <b>KAZUMA</b>	Middle Name or Initial:	
Residence & Citizenship:	City:	State/Foreign Country: <b>Japan</b>	Country of Citizenship: <b>Japan</b>	
Post Office Address:	Post Office Address: <b>110-1-405, Yashima-cho Takasaki-shi, Gunma 370-0849</b>	City:	State/Country: <b>Japan</b>	Postal Code:
Full Name of Inventor 2:	Last Name: <b>ISHIDA</b>	First Name: <b>ISAO</b>	Middle Name or Initial:	
Residence & Citizenship:	City:	State/Foreign Country: <b>Japan</b>	Country of Citizenship: <b>Japan</b>	
Post Office Address:	Post Office Address: <b>Kushihashi 352-6 Isehara, Kanagawa 259-1136</b>	City:	State/Country: <b>Japan</b>	Postal Code:

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1  Kazuma Tomizuka	Signature of Inventor 2  Isao Ishida
Date <u>Apr. 27, 2001</u>	Date <u>Apr 25, 2001</u>

## DECLARATION

COPY

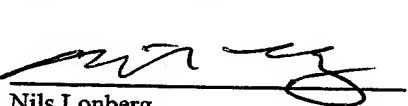

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **TRANSGENIC TRANSCHROMOSOMAL RODENTS FOR MAKING HUMAN ANTIBODIES** the specification of which was filed on November 30, 2000 as Provisional Application No. 60/250,340.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Full Name of Inventor 1:	Last Name: <b>LONBERG</b>	First Name: <b>NILS</b>	Middle Name or Initial:	
Residence & Citizenship:	City: <b>Woodside</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>United States</b>	
Post Office Address:	Post Office Address: <b>780 W. California Way</b>	City: <b>Woodside</b>	State/Country: <b>California</b>	Postal Code: <b>94062</b>
Full Name of Inventor 2:	Last Name: <b>HALK</b>	First Name: <b>ED</b>	Middle Name or Initial:	
Residence & Citizenship:	City: <b>Sunnyvale</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>United States</b>	
Post Office Address:	Post Office Address: <b>1004 Edmonds Court</b>	City: <b>Sunnyvale</b>	State/Country: <b>California</b>	Postal Code: <b>94087</b>

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 3 	Signature of Inventor 4 
Nils Lonberg	Ed Halk
Date 05-15-01	Date 05-15-01



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	60/250,340
Filing Date	November 30, 2000
First Named Inventor	Tomizuka et al.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	014643-012100US

**COPY**

I hereby appoint:

☐ Practitioners at Customer Number  **OR**

Place Customer  
Number Bar Code  
Label here

☒ Practitioner(s) named below:

Name	Registration Number
Andrew T. Serafini, Ph.D.	41,303
William M. Smith	30,223

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.  
**OR**

☐ Firm or  
Individual Name

Address

Address

City

State

ZIP

Country

Telephone

Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of an equal interest. See 37 CFR 3.71.

*Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).*

## SIGNATURE of Applicant or Assignee of Record

Name	Kirin Beer Kabushiki Kaisha, President
Signature	
Date	April 19, 2001

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3138950 v1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**POWER OF ATTORNEY OR  
AUTHORIZATION OF AGENT**

Application Number	60/250,340
Filing Date	November 30, 2000
First Named Inventor	Tomizuka et al.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	014643-012100US

**COPY**

I hereby appoint:

☐ Practitioners at Customer Number  **OR**Place Customer  
Number Bar Code  
Label here☒ Practitioner(s) named below:

Name	Registration Number
Andrew T. Serafini, Ph.D.	41,303
William M. Smith	30,223

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.  
**OR**☐ Firm or  
Individual Name

Address

Address

City

State

ZIP

Country

Telephone

Fax

I am the:

☐ Applicant/Inventor.☒ Assignee of record of an equal interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Name

W. Bradford Middlekauff

Signature

W. Bradford Middlekauff, General Counsel

Date

5-15-01

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.  
PA 3138950 v1

**COPY**

**ASSIGNMENT OF PROVISIONAL PATENT APPLICATION**

**JOINT**

WHEREAS, Kazuma Tomizuka, of 110-1-405, Yashima-cho Takasaki-shi, Gunma 370-0849, Japan; and Isao Ishida, of Kushihashi 352-6 Isehara, Kanagawa 259-1136, Japan; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified provisional patent application:

Title of Invention: **TRANSGENIC TRANSCHROMOSOMAL RODENTS FOR MAKING HUMAN ANTIBODIES**

Filing Date: **November 30, 2000**

Application No.: **60/250,340; and**

WHEREAS, Kirin Beer Kabushiki Kaisha, located at 10-1, Shinkawa 2-chome, Chuo-ku, Tokyo 104-8288 Japan, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on any patent application claiming priority from the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: Apr. 27, 2001

Kazuma Tomizuka  
Kazuma Tomizuka

Dated: Apr 25, 2001

Isao Ishida  
Isao Ishida

**COPY**

**ASSIGNMENT OF PROVISIONAL PATENT APPLICATION**

**JOINT**

WHEREAS, Nils Lonberg, of 780 W. California Way, Woodside, CA 94062; and Ed Halk, of 1004 Edmonds Court, Sunnyvale, CA 94087; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified provisional patent application:

Title of Invention:        **TRANSGENIC TRANSCHROMOSOMAL RODENTS FOR MAKING HUMAN ANTIBODIES**

Filing Date:                **November 30, 2000**

Application No.:            **60/250,340; and**

WHEREAS, Medarex, Inc., located at 67 Beaver Avenue, Annandale, NJ, 08801, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on any patent application claiming priority from the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 05-15-01

  
Nils Lonberg

Dated: 05-15-01

  
Ed Halk